

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No: To Be Assigned
Applicant: Kunihiko NAKAMURA
Filed: Herewith
Title: MECHANICAL RESONATOR
TC/A.U.: To Be Assigned
Examiner: To Be Assigned
Confirmation No.: To Be Assigned
Docket No.: MAT-8706US

INFORMATION DISCLOSURE STATEMENT

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (RP) submitted herewith. A copy of the references listed on the 1449 form is enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

The following references are not in the English language:

- 1) JP 2002-535865 A

- 2) JP 10-312734 A
- 3) JP 2001-502247 A
- 4) JP 2000-311572 A
- 5) JP 2000-348593 A
- 6) JP 2000-030595 A
- 7) JP 2001-308677 A
- 8) JP 2001-320100 A

References 2) and 4) - 8) include English language abstracts.

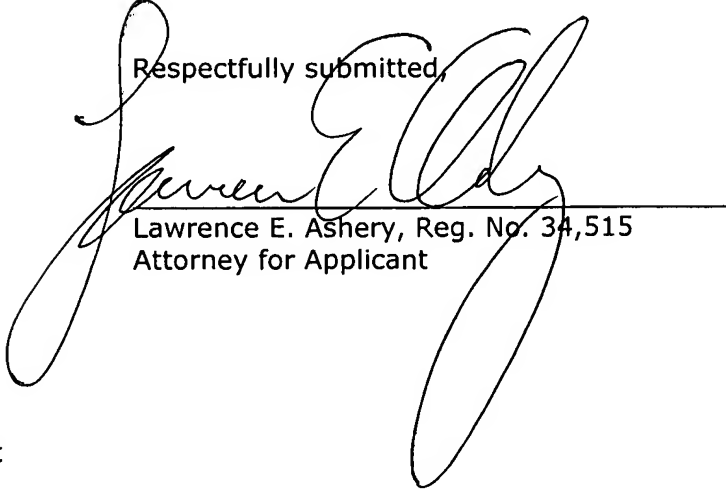
Reference 1) includes an English language abstract from WO 00/42705.

Reference 3) includes an English language abstract from WO 97/29538.

References 1) - 5) were cited in a search report by a foreign Patent Office in a patent application corresponding to the above-identified patent application. A copy of this search report, which indicates the degree of relevance found by the foreign office, is transmitted herewith. MPEP Section 609 IIIA(3), second paragraph.

This Information Disclosure Statement is being filed concurrently with the above-referenced application.

Respectfully submitted,


Lawrence E. Ashery, Reg. No. 34,515
Attorney for Applicant

LEA/ds

Enclosures: PTO Form 1449
(10) References
International Search Report

Dated: June 13, 2005

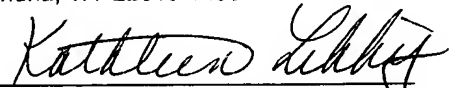
P.O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

EXPRESS MAIL

Mailing Label Number:
Date of Deposit:

EV 547590493 US
June 13, 2005

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Kathleen Libby

Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

SHEET 1 of 2

Complete if Known

Application Number	To Be Assigned
Filing Date	Herewith
First Named Inventor	Kunihiko Nakamura
Art Unit	To Be Assigned
Examiner Name	To Be Assigned
Attorney Docket No.	MAT-8706US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP 2002-535865 A (with English Abstract from WO 00/42705)	10-22-2002	THE REGENTS OF THE UNIVERSITY OF MICHIGAN		<input type="checkbox"/>
		JP 10-312734 A (with English Abstract)	11-24-1998	NEC CORP		<input type="checkbox"/>
		JP 2001-502247 A (with English Abstract from WO 97/29538)	02-20-2001	FRAUNHOFER- GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EINGETRAGENER VEREIN		<input type="checkbox"/>
		JP 2000-311572 A (with English Abstract)	11-07-2000	OMRON CORP.		
		JP 2000-348593 A (with English Abstract)	12-15-2000	OMRON CORP.		<input type="checkbox"/>
		JP 2000-030595 A (with English Abstract)	01-28-2000	NOKIA MOBILE PHONES LTD		<input type="checkbox"/>
		JP 2001-308677 A (with English Abstract)	11-02-2001	ROBERT BOSCH GMBH		<input type="checkbox"/>
		JP 2001-320100 A (with English Abstract)	11-16-2001	NGK INSULATORS LTD		<input type="checkbox"/>

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

⁶Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Substitute for Form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

10/538319

Application Number

Filing Date

To Be Assigned

First Named Inventor

Kunihiko Nakamura

Art Unit

To Be Assigned

Examiner Name

To Be Assigned

SHEET 2 of 2

Attorney Docket No.

MAT-8706US

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		STIFFNESS-COMPENSATED TEMPERATURE-INSENSITIVE MICROMECHANICAL RESONATORS, Wan-Thai Hsu and Clark T.-C. Nguyen, Micro Electro Mechanical Systems, 2002, The Fifteenth IEEE International Conference on, 20-24, Jan. 2002, pp. 731-734	<input type="checkbox"/>
		HIGH-Q HF MICROELECTROMECHANICAL FILTERS, Frank D. Bannon, III, John R. Clark, and Clark T.-C. Nguyen, IEEE Journal of Solid-State Circuits, Vol. 35. No. 4, April, 2000, pp. 512-526	<input type="checkbox"/>
		International Search Report for application no. PCT/JP2004/004091 dated June 22, 2004	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.